

Title (en)

Method and system for the evaluation and visual display of abnormal electromagnetic physiological activity of the brain and the heart.

Title (de)

Vorrichtung und Verfahren zum Auslösen und Aufzeichnen der abnormaler physiologischen elektromagnetischen Aktivität des Herzens und Gehirns.

Title (fr)

Dispositif et procédé d'évaluation et affichage d'une activité physiologique électromagnétique anormal du coeur et cerveau.

Publication

**EP 0485300 A2 19920513 (EN)**

Application

**EP 91403017 A 19911108**

Priority

- CU 1990169 A 19901109
- CU 1990170 A 19901109

Abstract (en)

A method and system for the evaluation and visual display of abnormal electromagnetic physiological activity of the brain and the heart includes a set of bioelectromagnetic amplifiers and a computer based system for the recording and analog to digital conversion of human electromagnetic-physiological signals. The signals collected are expanded in selected spatio-temporal functional bases, and parametric models are used for summarizing the statistical properties of the coefficients. Multivariate topographic maps and curves are computed based on the comparison of the estimated parameters for a patient and the age regression equations for the parameters calculated from a normative database. The multivariate maps and curves are visually displayed in a diagnostically useful color-coded probability scale. <IMAGE>

IPC 1-7

**G06F 15/42**; **G06F 15/20**

IPC 8 full level

**G06F 19/00** (2006.01)

CPC (source: EP)

**G16H 15/00** (2017.12); **G16H 50/50** (2017.12); **G16H 10/60** (2017.12)

Cited by

US5282474A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0485300 A2 19920513**; **EP 0485300 A3 19930428**

DOCDB simple family (application)

**EP 91403017 A 19911108**